



3636

Docket No. 98-14CIP4(R)
PATENT

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on 12/27/01.

BY: Suzanne Shadley
Suzanne Shadley

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Safir et al.
Serial No.: 09/873,176
Filed: 6/1/01
For: Parallel Semicontinuous or Continuous Reactors

Group Art Unit: 3636

Examiner: Unknown

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED

JAN 22 2002

GROUP 3600

TRANSMITTAL LETTER

Sir:

Transmitted herewith (check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> Preliminary Amendment | <input checked="" type="checkbox"/> Information Disclosure Statement |
| <input type="checkbox"/> Response/Amendment | <input type="checkbox"/> Petition Under 37 CFR 1.97(d)(2) |
| <input type="checkbox"/> Response/Amendment After Final | <input type="checkbox"/> Formal Drawings |
| <input type="checkbox"/> Supplemental Amendment | <input type="checkbox"/> Declaration Under 37 CFR 1.131 |
| <input type="checkbox"/> Affidavits/Declarations | <input type="checkbox"/> Declaration Under 37 CFR 1.132 |
| <input type="checkbox"/> Declaration and Power of Attorney | <input type="checkbox"/> Terminal Disclaimer |
| <input type="checkbox"/> Supplemental Declaration | <input type="checkbox"/> Small Entity Statement |
| <input type="checkbox"/> Associate Power of Attorney | <input type="checkbox"/> Request for Refund |
| <input type="checkbox"/> Change of Correspondence Address | <input type="checkbox"/> Appeal |
| <input type="checkbox"/> Associate Power of Attorney | <input type="checkbox"/> Petition |
| <input type="checkbox"/> Response to Missing Parts | <input type="checkbox"/> Status Letter |

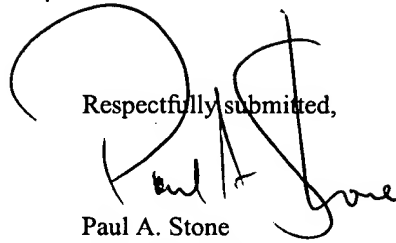
to be filed in the above-identified patent application.

☒ No fee is required.

☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 C.F.R. § 1.16, in connection with the paper(s) transmitted herewith, or credit any overpayment of same, to Deposit Account No. 50-0496.

A duplicate copy of this Transmittal Letter is transmitted herewith.

Respectfully submitted,

A large, stylized handwritten signature in black ink, appearing to read "Paul A. Stone".

Paul A. Stone
Reg. No. 38,628
Attorney for Applicant(s)

Date: Dec. 26, 2001

Symyx Technologies, Inc.
3100 Central Expressway
Santa Clara, California 95051
Tel.: (408) 773-4027
Fax: (408) 773-4029



#3

Attorney Docket No. 98-14CIP4(R)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on 12-27-01

By: Suzanne Shadley

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Safir et al. Group Art Unit : 3636
Serial No. : 09/873,176 Examiner : Not Yet Assigned
Filed : 6/1/01
For : Parallel Semicontinuous or Continuous Reactors

Santa Clara, California
December 26, 2001

Assistant Commissioner for Patents and Trademarks
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant requests that the references cited herein be considered in connection with the examination of this application and listed on the front of any patent that issues. The references are listed on the attached modified PTO-1449 form. Copies of the references are enclosed.

Applicant believes that no fee is required for submission of this statement. If a fee is required, the Commissioner is authorized to deduct such fee from Deposit Account No. 50-0496.

Respectfully submitted,

Paul A. Stone
Registration No. 38,628
Attorney for Applicant

Symyx Technologies
3100 Central Expressway
Santa Clara, CA 95051
Tel.: (408) 764-2000
Fax: (408) 773-4029

**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

GROUP:

3636

US PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	94,830	09/1869	King			
	1,111,374	09/1914	Goddard et al.			
	1,281,610	10/1918	Lundahl			
	1,841,434	01/1932	Gibson			
	2,025,379	12/1935	Croasdale, Jr.			
	2,202,860	06/1940	McPhee et al.			
	2,484,391	10/1949	Treiss, Jr.			
	2,637,537	05/1953	Ernst			
	2,766,022	10/1956	Bender			
	2,991,161	7/04/1961	Gasche			
	2,996,363	8/15/1961	Ruyak			
	3,143,167	8/04/1964	Vieth			
	3,319,940	05/1967	Mentnech			
	3,326,610	6/20/1967	Baermann et al.			
	3,455,540	07/1969	Marcmann			
	3,456,923	07/1969	Zeuzem			
	3,603,564	09/1971	Price et al.			
	3,622,968	11/23/1971	Silverman			
	3,676,653	7/11/1972	Arens et al.			
	3,680,843	8/01/1972	Lu et al.			
	3,693,941	9/26/1972	Suchy			
	3,697,053	10/1972	Will			
	3,718,032	2/27/1973	Gray			
	3,778,757	12/11/1973	Houston			
	3,909,647	9/30/1975	Peterson			
	4,037,826	07/1977	Huislander et al.			
	4,065,107	12/1977	Van Horbek			
	4,099,923	7/11/1978	Millberger			
	4,106,825	12/13/1976	Ruyak			
	4,151,400	4/24/1979	Smith et al.			
	4,175,875	11/1979	Van Horbek			
	4,195,131	3/25/1980	Papas			

RECEIVED
JAN 22 2002
GROUP 3600


**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

GROUP:

3636

US PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,199,265	4/22/1980	Sanderson et al.			
	4,229,110	10/1980	Lücke			
	4,235,592	11/25/1980	Smith et al.			
	4,325,914	4/20/1982	Ruyak			
	4,355,906	10/1982	Ono			
	4,370,662	1/25/1983	Hou et al.			
	4,391,338	7/05/1983	Patashnick et al.			
	4,438,074	03/1984	Wilt			
	4,469,445	09/1984	Wurtz			
	4,506,982	03/1985	Smithers et al.			
	4,517,338	5/14/1985	Urdea et al.			
	4,568,195	2/04/1986	Herz et al.			
	4,594,228	06/1986	Lambert, Jr. et al.			
	4,598,049	7/01/1986	Zelinka et al.			
	4,640,023	2/03/1987	Mori et al.			
	4,671,941	6/09/1987	Niina et al.			
	4,675,026	6/23/1987	Riemer et al	44	280	
	4,721,874	1/26/1988	Emmert			
	4,741,200	5/03/1988	Hammerle			
	4,746,490	5/24/1988	Saneii			
	4,748,002	5/31/1988	Neimark et al.			
	4,779,451	10/25/1988	Ezawa et al.			
	4,799,862	01/1989	Davidson et al.			
	4,810,099	03/1989	Langsetmo et al.			
	4,858,637	08/1989	Rempel et al.			
	4,865,986	9/12/1989	Coy et al.			
	4,901,221	2/13/1990	Kodosky et al.			
	4,910,523	3/20/1990	Huguenin et al.			
	4,924,444	05/1990	Castellanos			
	4,944,923	7/31/1990	Heinrichs et al.			
	4,983,046	01/1991	Murata et al.			
	5,061,630	10/29/1991	Knopf et al.			

**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

GROUP:

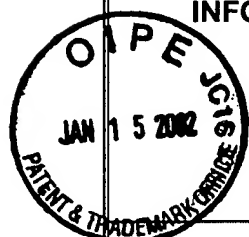
3636

US PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,074,671	12/1991	Roueché et al.			
	5,098,669	03/1992	Kawanami et al.			
	5,117,550	06/1992	Nadeau et al.			
	5,143,854	9/01/1992	Pirrung et al.			
	5,145,255	09/1992	Shimada et al.			
	5,152,488	10/1992	Richardson	248	274	
	5,154,891	10/1992	Brenner			
	Re. 34,386	09/1993	Davidson et al.			
	5,191,791	3/09/1993	Gerardi et al.			
	5,201,215	4/13/1993	Granstaff et al.			
	5,217,695	6/08/1993	Augustine et al.			
	5,224,174	6/29/1993	Schneider et al.			
	5,252,296	10/12/1993	Zuckermann et al.			
	5,291,587	3/01/1994	Kodosky et al.			
	5,297,867	03/1994	Holman			
	5,304,355	04/1994	Yant et al.			
	5,316,728	5/31/1994	Hayashi et al.			
	5,324,483	9/24/1996	Cody et al.			
	5,356,756	10/18/1994	Cavicchi et al.			
	5,357,964	10/25/1994	Spivey et al.			
	5,367,879	11/29/1994	Doke et al.			
	5,375,470	12/27/1994	Matsushima et al.			
	5,380,485	1/10/1995	Takahashi et al.			
	5,380,495	1/10/1995	Chang et al.			
	5,395,594	3/07/1995	Nokihara et al.			
	5,399,014	03/1995	Takata et al.			
	5,407,270	04/1995	Barile et al.			
	5,437,838	8/01/1995	De Moranville et al.			
	5,439,236	08/1995	Musil			
	5,443,791	8/22/1995	Cathcart et al.			
	5,469,369	11/21/1995	Rose-Pehrsson et al.			
	5,472,278	12/1995	Kawaoka et al.			

RECEIVED
 JAN 22 2002

GROUP 3600


**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

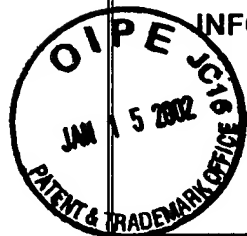
GROUP:

3636

US PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,499,193	3/13/1996	Sugawara et al.			
	5,503,805	4/02/1996	Sugarman et al.			
	5,515,683	5/14/1996	Kessler			
	5,524,636	6/11/1996	Sarvazyan et al.			
	5,538,694	7/23/1996	Delius			
	5,541,314	7/30/1996	McGraw et al.			
	5,544,489	8/13/1996	Moren			
	5,546,301	8/13/1996	Agrawal et al.			
	5,576,946	11/19/1996	Bender et al.			
	5,593,642	1/14/1997	DeWitt et al.			
	5,593,839	1/14/1997	Hubbell et al.			
	5,601,141	2/11/1997	Gordon et al.			
	5,602,756	2/11/1997	Atwood et al.			
	5,609,826	3/11/1997	Cargill et al.			
	5,611,059	3/11/1997	Benton et al.			
	5,670,269	9/23/1997	Hamada et al.			
	5,698,163	12/16/1997	Mandel			
	5,714,127	2/03/1998	DeWitt et al.			
	5,716,584	2/10/1998	Baker et al.			
	5,732,277	3/24/1998	Kodosky et al.			
	5,734,098	3/31/1998	Kraus et al.			
	5,738,439	04/1998	Flower			
	5,746,982	5/05/1998	Saneii et al.			
	5,762,881	6/09/1998	Harness et al.			
	5,789,258	8/04/1998	Drinkwine et al.			
	5,792,431	8/11/1998	Moore et al.			
	5,802,856	9/08/1998	Schaper et al.			
	5,812,394	9/22/1998	Lewis et al.			
	5,819,842	10/13/1998	Potter et al.			
	5,837,199	11/17/1998	Dumschat			
	5,841,959	11/24/1998	Guiremand			
	5,856,101	1/05/1999	Hubbell et al.			

RECEIVED
JAN 22 2002
GROUP 3600


**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

GROUP:

3636

US PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,862,052	1/19/1999	Nixon et al.			
	5,866,342	2/02/1999	Antonenko et al.			
	5,871,278	02/1999	Harry et al.			
	5,888,830	3/30/1999	Mohan et al.			
	5,985,356	11/16/1999	Schultz et al.			
	5,961,925	10/1999	Ruediger et al.	422	99	
	5,985,356	11/1999	Schultz et al.			
	6,030,917	2/29/2000	Weinberg et al.			
	6,063,633	5/16/2000	Willson, III			
	6,086,831	7/11/2000	Harness et al.			
	6,109,780	08/2000	Lesniak			
	6,132,686	10/17/2000	Gallup et al.			

RECEIVED

JAN 22 2002

GROUP 3600

**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

GROUP:

3636

FOREIGN DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	CS 266,759	6/29/1990	Velich et al.			
	EP 529 504 A2	3/03/1993	Zymark Corporation			
	EP 635 713 A1	1/25/1995	Hutchins et al.			
	EP 658 566 A1	6/21/1995	Chatelain et al.			
	EP 783 922 A1	7/16/1997	Tecan US			
	EP 796 654 A2	9/24/1997	Warner-Lambert Company			
	EP 963 791 A2	12/15/1999	Harness et al.	B01L	7/00	
	FR 1,418,757	10/18/1965	Institut Français Du Pétrole, Des Carburants et Lubrifiants			
	FR 2,630,927	11/10/1989	Rhone Poulenc Chimie			
	GB 989,424	4/14/1965	Ballestra			
	GB 1,408,199	10/01/1975	Fink			
	JP 4-18424	1/22/1992	Nakazato et al.			
	JP 10-182501	07/1998	Oike			
	WO 90/02605	3/22/1990	Meldal et al.			
	WO 96/14930	5/23/1996	WIPO	B01J	19/00	
	WO 97/09353	3/13/1997	WIPO			
	WO 97/10896	3/27/1997	Mohan et al.			
	WO 98/07026	2/19/1998	Windhab et al.			
	WO 98/13137	4/02/1998	Antonenko et al.	B01J	19/00	
	WO 98/15501	4/16/1998	Symyx Technologies			
	WO 98/15813	4/16/1998	Symyx Technologies			
	WO 98/20130	10/14/1993	Chow	C08H B01L	1/00 3/00	
	WO 98/22212	5/28/1998	Bates	B01J B01D	19/00 15/08	
	WO 98/36826	8/27/1998	Wendelbo et al.			
	WO 98/39099	09/1998	Zuellig et al.			
	WO 98/40159	9/17/1998	Lebl et al.	B01J	19/00	
	WO 98/57740	12/23/1998	WIPO	B01J	19/00	
	WO 99/30817	6/24/1999	WIPO	B01J	19/00	
	WO 00/09255	2/24/2000	WIPO	B01J	19/00	

RECEIVED

JAN 22 2002

GROUP 3600

**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

GROUP:

3636

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages Etc.)

A	Ahrweiler, P., et al., "Automation of Parallel Synthesis From Reagent Preparation Through Sample Workup," <i>Am. Lab.</i> 1997, 29, 12-14
B	Baselt, J.P., et al., "Microreactor Technology: Focusing the German Activities in this Novel and Promising Field of Chemical Process Engineering," 1997, pp. 13-17
C	Buhlmann, R., et al., "An Open Software Environment to Optimize the Productivity of Robotized Laboratories," <i>J. Chromatogr. Sci.</i> 1994, 32, 243-248
D	Cargill, J.F., et al., <i>Lab. Rob. Autom.</i> 1996, 8, 139-148
E	Corkan, A., et al., "Application of an Automated Chemistry Workstation to Problems in Synthetic Chemistry," <i>Chemom. Intell. Lab. Syst.</i> 1992, 17, 95-105
F	Corkan, A., et al., "Design Concepts for Synthetic Chemistry Workstations," <i>Adv. Lab. Autom. Rob.</i> 1990, 6, 477-497
G	Corkan, et al., "Experiment Manager Software for an Automated Chemistry Workstation, including a Scheduler for Parallel Experimentation," <i>Chemometrics and Intelligent Laboratory Systems: Laboratory Information Management</i> , 17 (1992) October, No. 1, 47-74, Elsevier Science Publishers B.V., Amsterdam
H	Gehrer, E., et al., "A Fully Programmable System for the Study of Catalytic Gas Reactions," <i>J. Phys. E: Sci. Instrum.</i> 1985, 18, 10, 836-838
I	Hlavay, J. and Gullbault, G.G., "Applications of the Piezoelectric Crystal Detector in Analytical Chemistry," <i>Analytical Chemistry</i> , November 1977, Vol. 49, No. 13
J	Josses, P., et al., "Carrying Out Multiple Reactions in Organic Synthesis with a Robot," <i>Adv. Lab. Autom. Rob.</i> 1990, 6, 463-475
K	Kanazawa, K. Keiji and Gordon, Joseph G., "The Oscillation Frequency of a Quartz Resonator in Contact with a Liquid," <i>Analytica Chimica Acta</i> , 1985, Vol. 175, pp. 99-105
L	Kiezel, L., et al., <i>Chem. Stosow.</i> 1968, 12, 407-415
M	Kipling, A.L., Thompson, M., "Network Analysis Method Applied to Liquid-Phase Acoustic Wave Sensors," <i>Analytical Chemistry</i> , 1990, Vol. 62, pp. 1514-1519
N	Li, K.T., et al., "Mixing and Control of a CSTR with Series-Parallel Reactions," <i>J. Chin. Inst. Chem. Eng.</i> 1991, 22, 61-69
O	Lindsey, J.S., "A Retrospective on the Automation of Laboratory Synthetic Chemistry," <i>Chemom. Intell. Lab. Syst.</i> 1992, 17, 15-45
P	McFarlane, R.C., et al., "Adaptive Optimizing Control of Multivariable Constrained Chemical Processes. 2. Application Studies," <i>Ind. Eng. Chem. Res.</i> 1989, 28, 1834-1845
Q	Michels, A., Meinen, F., Murdfield, T., Gohde, W., Fischer, U.C., Beckmann, E. and Fuchs, H., "1 MHz quartz length extension resonator as a probe for scanning near-field acoustic microscopy," <i>Thin Solid Films</i> , 1995, Vol. 264, pp. 172-195
R	Muramatsu, H., Kumura, K., Ataka, T., Homma, Y. Miura and Karube, I., "A Quartz Crystal Viscosity Sensor for Monitoring Coagulation Reaction and its Application to a Multichannel Coagulation Detector," <i>Biosensors & Bioelectronics</i> , 1991, Vol. 6, pp. 353-358
S	Muramatsu, H., Tamiya, Eiichi and Karube, Isao, "Computation of Equivalent Circuit Parameters of Quartz Crystals in Contact with Liquids and Study of Liquid Properties," <i>Analytical Chemistry</i> , 1988, Vol. 60, pp. 2142-2146
T	Nelles, J., et al., <i>Chem. Tech.</i> 1975, 27, 714-716
U	Nomura, T. and Iijima, M., "Electrolytic Determination of Nanomolar Concentrations of Silver in Solution with a Piezoelectric Quartz Crystal," <i>Analytica Chimica Acta</i> , 1981, Vol. 131, pp. 97-102
V	Plouvier, J.C., et al., "Experiment Planner for Strategic Experimentation with an Automated Chemistry Workstation," <i>Chemom. Intell. Lab. Syst.</i> 1992, 17, 75-94
W	Salvet, M., et al., <i>Chem. Abstr.</i> 1997, 126, abstract 200993h
X	Takamatsu, T., et al., "Optimal Scheduling and Minimum Storage Tank Capacities in a Process System with Parallel Batch Units," <i>Comput. Chem. Eng.</i> 1979, 3, 185-195

**SUPPLEMENTAL
INFORMATION DISCLOSURE
CITATION**

PTO-1449

ATTORNEY'S DOCKET NO.:

98-14CIP4R1

APPLICATION NO.:

09/873,176

APPLICANT:

Safir et al.

FILING DATE:

June 1, 2001

GROUP:

3636

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages Etc.)

Y	Tietze, A., et al., "Temperature Oscillation Calorimetry in Stirred Tank Polymerization Reactors," <i>Dechema Monogr.</i> 1995, 131, 673-680
Z	Vignes, S., et al., <i>Comp. Rend. Congr. Indust.</i> 1961, 405-411
ab	World Wide Web brinkman.com, 1997 "Brinkmann Horizon Stirrers and Hotplace Stirrers" Information
ac	World Wide Web calbay.com, March 31, 1998 "Viscoliner" information
ad	World Wide Web argotech.com/quest, May 18, 1998 "NAUTILUS 2400" information
ae	World Wide Web argotech.com/quest, May 18, 1998 "QUEST 210" information
af	World Wide Web tecan.ch, July 14, 1998 "CAVRO RSP 9000 Robotic Sample Processor" information
ag	World Wide Web thermometric.com/calorimetry, July 27, 1998 "Caloimetry" information
ah	World Wide Web mettler.com, August 10, 1998 "Automatic Laboratory Reactors, Reaction Calorimeters and On-line Analysis" information
ai	World Wide Web calscorp.com/about_csc, February 8, 1999 "About Calorimetry Sciences Corp." information
aj	PCT/ISA/206, Invitation to Pay Additional Fees in Int'l Application No. PCT/US99/18358, Annex Page 1, Document Citation WO 98 57740 A, May 16, 2000
ak	PCT/ISA/220, Notification of Transmittal of the International Search Report in Int'l Application No. PCT/US99/18358, September 25, 2000, and attached International Search Report
al	"Heated Reacto - Stations," Estem Corporation, October 1997
am	"MultiReactor - Reactor Block," RoboSynthon, Inc.
an	J-KEM © Scientific, Inc. "REACTION BLOCKS" information
EXAMINER:	
DATE CONSIDERED:	

Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.